

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
401 M Street, S.W.
WASHINGTON, D.C. 20460


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DATA MATRIX

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| Date Jan. 10, 2017 | EPA Reg No./File Symbol 91127- | Page 1 of 19 |
| Applicant's/Registrant's Name & Address Extremis, LLC 501 Cascade Pointe Lane, Suite 102 Cary, NC 27513 | Product Mesotrione Technical | |

Ingredient: Mesotrione (CAS No. 104206-82-8)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|---|--|----------------------|--------------------------------|------------|---------------------------|
| PRODUCT SPECIFIC DATA REQUIREMENTS | | | | | |
| 830.1550 | Product identity and composition | 50093201 | Extremis, LLC | OWN | |
| 830.1600 | Description of Materials Used to Produce the Product | 50093201 | Extremis, LLC | OWN | |
| 830.1620 | Description of the Production Process | 50093201 | Extremis, LLC | OWN | |
| 830.1650 | Description of the Formulation Process | | | | Not required ¹ |
| 830.1670 | Discussion of Formation of Impurities | 50093201 | Extremis, LLC | OWN | |
| 830.1700 | Preliminary Analysis | 50093202 | Extremis, LLC | OWN | |
| 830.1750 | Certified Limits | 50093201 | Extremis, LLC | OWN | |
| 830.1800 | Enforcement Analytical Method | 50093203 50093202 | Extremis, LLC Extremis, LLC | OWN OWN | |
| 830.6302 | Color | 50093204 | Extremis, LLC | OWN | |
| 830.6303 | Physical State | 50093204 | Extremis, LLC | OWN | |
| 830.6304 | Odor | 50093204 | Extremis, LLC | OWN | |
| 830.6313 | Stability to Normal and Elevated Temperatures, Metals and Metal Ions | 50093204 | Extremis, LLC | OWN | |
| 830.6314 | Oxidation/Reduction: Chemical Incompatibility | 50093204 | Extremis, LLC | OWN | |
| 830.6315 | Flammability | 50093204 | Extremis, LLC | OWN | |
| 830.6316 | Explosibility | 50093204 | Extremis, LLC | OWN | |
| 830.6317 | Storage Stability | 50093207 | Extremis, LLC | OWN | |
| 830.6319 | Miscibility | | | | Not required ² |
| 830.6320 | Corrosion Characteristics | 50093207 | Extremis, LLC | OWN | |

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Ingredient: Mesotrione (CAS No. 104206-82-8)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|----------------------------|--|-------------|---------------|--------|---------------------------|
| 830.6321 | Dielectric Breakdown Voltage | | | | Not required ³ |
| 830.7000 | pH | 50093204 | Extremis, LLC | OWN | |
| 830.7050 | UV/Visible Absorption | 50093204 | Extremis, LLC | OWN | |
| 830.7100 | Viscosity | 50093206 | Extremis, LLC | OWN | Not required ⁴ |
| 830.7200 | Melting Point/Melting Range | 50093205 | Extremis, LLC | OWN | |
| 830.7220 | Boiling Point/Boiling Range | | | | Not required ⁵ |
| 830.7300 | Density/Relative Density/Bulk Density | 50093204 | Extremis, LLC | OWN | |
| 830.7370 | Dissociation Constants in Water | 50093204 | Extremis, LLC | OWN | |
| 830.7520 | Particle size, fiber length, and diameter distribution | 50093206 | Extremis, LLC | OWN | Waiver ⁶ |
| 830.7550 | Partition Coefficient (n-octanol/water), Shake Flask Method | 50093205 | Extremis, LLC | OWN | |
| 830.7560 | Partition Coefficient (n-octanol/water), Generator Method | | | | See 830.7550 |
| 830.7570 | Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography | | | | See 830.7550 |
| 830.7840 | Water Solubility: Column Elution Method, Shake Flask Method | 50093205 | Extremis, LLC | OWN | |
| 830.7860 | Water Solubility: Generator Column Method | | | | See 830.7840 |
| 830.7950 | Vapor Pressure | 50093205 | Extremis, LLC | OWN | |
| | | | | | |
| 870.1100 | Acute oral toxicity | 44373512 | | OLD | See endnote ⁷ |
| 870.1200 | Acute dermal toxicity | 44373514 | | OLD | See endnote ⁸ |


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| Ingredient: Mesotrione (CAS No. 104206-82-8) | | | | | |
| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
| 870.1300 | Acute inhalation toxicity | 44373516 | | OLD | See endnote ⁹ |
| 870.2400 | Eye irritation | 44373518 | | OLD | See endnote ¹⁰ |
| 870.2500 | Skin irritation | 44373520 | | OLD | See endnote ¹¹ |
| 870.2600 | Skin sensitization | 44373522 | | OLD | See endnote ¹² |
| GENERIC DATA REQUIREMENTS | | | | | |
| 850.2100 | Acute Avian Oral Toxicity | 44373506 | | OLD | See endnote ¹³ |
| 850.2200 | Acute Avian Dietary Toxicity | 44373507 44373508 | | OLD OLD | See endnote ¹⁴ |
| 850.2400 | Wild Mammal Toxicity | | | | Not required |
| 850.2300 | Avian Reproductive Toxicity | 44505005 44505006 | | OLD OLD | See endnote ¹⁵ |
| 850.2500 | Simulated or Actual Field Testing | | | | Not required |
| 850.1075 | Freshwater Fish Toxicity | 44373509 44373510 44901702 44901703 | | OLD OLD OLD OLD | See endnote ¹⁶ |
| 850.1010 | Freshwater Invertebrate Toxicity | 44373511 44901704 44901705 | | OLD OLD OLD | See endnote ¹⁷ |

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Ingredient: Mesotrione (CAS No. 104206-82-8)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|--|---|--|-------------------------------|--------------------------|----------------------------|
| 850.1025, 850.1035, 850.1045, 850.1055, 850.1075 | Acute Toxicity Estuarine and Marine Organisms | 44505007 44505008 44505009 50096302 | Syngenta Crop Protection, LLC | OLD OLD OLD PAY | See endnote ¹⁸ |
| 850.1300 | Aquatic Invertebrate Life Cycle (Freshwater) | 44505010 | | OLD | See endnote ¹⁹ |
| 850.1350 | Aquatic Invertebrate Life Cycle (Saltwater) | 50096301 | Syngenta Crop Protection, LLC | PAY | See endnote ²⁰ |
| 850.1400 | Fish Early Life Stage (Freshwater) | 44505011 | | OLD | See endnote ²¹ |
| 850.1400 | Fish Early Life Stage (Saltwater) | | | | Not required ²² |
| 850.1500 | Life Cycle Fish | | | | Not required ²³ |
| 850.1710, 850.1730, 850.1850 | Aquatic Organisms Bioavailability, Biomagnification, Toxicity | | | | Not required ²⁴ |
| 850.1950 | Simulated or Actual Field Testing for Aquatic Organisms | | | | Not required |
| 850.1735 | Whole Sediment: Acute Freshwater Invertebrates | | | | Not required |
| 850.1740 | Whole Sediment: Acute Marine Invertebrates | | | | Not required |
| N/A | Whole Sediment: Chronic Invertebrates Freshwater and Marine | | | | Not required |
| 850.3020 | Honey Bee Acute Contact Toxicity | 44373528 | | OLD | See endnote ²⁵ |
| SS-1155 | Residues in Pollen and Nectar/Field Residue Analysis | | | | Reserved ²⁶ |
| SS-1311 | Honey Bee Adult Acute Oral Toxicity | 44373528 | | OLD | |
| SS-1312 | Honey Bee Larvae Acute Oral Toxicity | 49822701 | Syngenta Crop Protection, LLC | PAY | See endnote ²⁷ |

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| Ingredient: Mesotrione (CAS No. 104206-82-8) | | | | | |
| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
| SS-1313 | Honey Bee Adult Chronic Oral Toxicity | 49822702 | Syngenta Crop Protection, LLC | PAY | See endnote ²⁸ |
| SS-1314 | Honey Bee Larvae Chronic Oral Toxicity | 50096304 | Syngenta Crop Protection, LLC | PAY | See endnote ²⁹ |
| SS-1342 | Semi Field Testing for Pollinators (Tunnel or Colony Feeding Studies) | | | | Reserved ³⁰ |
| 850.3030 | Honeybee Toxicity of Residues on Foliage | | | | Not required ³¹ |
| 850.3040 | Field Testing for Pollinators | | | | Reserved ³² |
| 870.6100 | Delayed Neurotoxicity (Acute) – Hen | | | | Not required |
| 870.6200 | Acute Neurotoxicity – Rat | 44505017 44505018 | | OLD OLD | See endnote ³³ |
| 870.3100 | 90-Day Oral: Rodent | 44505020 44505019 | | OLD OLD | See endnote ³⁴ |
| 870.3150 | 90-Day Oral: Non-Rodent | 44505023 | | OLD | See endnote ³⁵ |
| 870.3200 | 21/28-Day Dermal Toxicity | 44505024 | | OLD | See endnote ³⁶ |
| 870.3250 | 90-Day Dermal Toxicity | | | | Not required |
| 870.3465 | 90-Day Inhalation Toxicity | | | | Not required ³⁷ |
| 870.6100 | 28-Day Delayed Neurotoxicity Hen | | | | Not required |
| 870.6200 | 90-Day Neurotoxicity | 44505025 | | OLD | See endnote ³⁸ |
| 870.4100 | Chronic Oral Rodent | 44505035 44505036 | | OLD OLD | See endnote ³⁹ |

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| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
| 870.4200 | Carcinogenicity | 44505028 44505035 44505036 | | OLD OLD OLD | See endnote ⁴⁰ |
| 870.3700 | Reproduction/Developmental Toxicity Screening Test | 44920801 44920802 44901708 | | OLD OLD OLD | See endnote ⁴¹ |
| 870.3800 | 2-Generation Reproduction: Rat | 44505033 | | OLD | See endnote ⁴² |
| 870.6300 | Developmental Neurotoxicity Study | | | | Not required |
| 870.5100 | Bacterial Reverse Mutation Test | 44373526 | | OLD | See endnote ⁴³ |
| 870.5300, 870.5375 | <i>In vitro</i> Mammalian Cell Assay | 44373525 44373524 | | OLD OLD | See endnote ⁴⁴ |
| 870.5385, 870.5395, 870.5450; 870.5550 | <i>In vivo</i> Cytogenetics and Other Effects | 44373527 | | OLD | See endnote ⁴⁵ |
| 870.7485 | Metabolism and Pharmacokinetics | 44505101 44505102 44505103 44505104 44505105 44505106 | | OLD OLD OLD OLD OLD OLD | See endnote ⁴⁶ |
| 870.7200 | Companion Animal Safety | | | | Not required |
| 870.7600 | Dermal Penetration | | | | Not required ⁴⁷ |

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| 870.7800 | Immunotoxicity | 48748301 | Syngenta Crop Protection, LLC | PAY | See endnote ⁴⁸ |
| 875.1100 | Dermal Exposure – Outdoor | | Agricultural Handlers Exposure Task Force | OWN | See endnote ⁴⁹ |
| 875.1200 | Dermal Exposure - Indoor | | | | Not required |
| 875.1300 | Inhalation Exposure – Outdoor | | Agricultural Handlers Exposure Task Force | OWN | See endnote ⁴⁹ |
| 875.1400 | Inhalation Exposure - Indoor | | | | Not required |
| 875.1500 | Biological Monitoring | | Agricultural Handlers Exposure Task Force | OWN | See endnote ⁴⁹ |
| 875.1600 | Data Reporting and Calculations | | Agricultural Handlers Exposure Task Force | OWN | See endnote ⁴⁹ |
| 875.1700 | Product Use Information | | Agricultural Handlers Exposure Task Force | OWN | See endnote ⁴⁹ |
| 875.2100 | Dislodgeable Foliar Residue and Turf Transferable Residues | 47172301 | Syngenta Crop Protection, LLC | PAY | |
| 875.2200 | Soil Residue Dissipation | | Agricultural Re-Entry TF Outdoor Residential Exposure TF | OWN OWN | See endnote ⁵⁰ |
| 875.2400 | Dermal Exposure | | Agricultural Re-Entry TF Outdoor Residential Exposure TF | OWN OWN | See endnote ⁵⁰ |

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| 875.2500 | Inhalation Exposure | | Agricultural Re-Entry TF Outdoor Residential Exposure TF | OWN OWN | See endnote ⁵⁰ |
| 875.2600 | Biological Monitoring | | Agricultural Re-Entry TF Outdoor Residential Exposure TF | OWN OWN | See endnote ⁵⁰ |
| 875.2700 | Product Use Information | | Agricultural Re-Entry TF Outdoor Residential Exposure TF | OWN OWN | See endnote ⁵⁰ |
| 875.2800 | Descriptions of Human Activity | | Agricultural Re-Entry TF Outdoor Residential Exposure TF | OWN OWN | See endnote ⁵⁰ |
| 875.2900 | Data Reporting and Calculations | | Agricultural Re-Entry TF Outdoor Residential Exposure TF | OWN OWN | See endnote ⁵⁰ |
| 875.3000 | Nondietary Ingestion Exposure | | Agricultural Re-Entry TF Outdoor Residential Exposure TF | OWN OWN | See endnote ⁵⁰ |
| | | | | | |
| 201-1 | Droplet Size Spectrum | | Spray Drift Task Force | OWN | See endnote ⁵¹ |
| 202-1 | Droplet Size Spectrum | | Spray Drift Task Force | OWN | See endnote ⁵¹ |
| | | | | | |
| 850.4100 | Tier 1: Seedling Emergence | 47093501 46562902 46562903 44505119 50096303 | Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC | PAY PAY PAY OLD PAY | See endnote ⁵² |

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| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
| 850.4150 | Tier 1: Vegetative Vigor | 44505119 46562904 46562905 | Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC | OLD PAY PAY | See endnote ⁵³ |
| 850.4400, 850.4500 | Tier 1: Aquatic Plant Growth | 44505123 46562906 46562907 44505120 44505124 44505121 44901709 44901710 | Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC | OLD PAY PAY OLD OLD OLD OLD OLD GAP | See endnote ⁵⁴ |
| 850.4100 | Tier 2: Seedling Emergence | 47093501 46562902 46562903 44505119 50096303 | Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC | PAY PAY PAY OLD PAY | See endnote ⁵² |
| 850.4150 | Tier 2: Vegetative Vigor | 44505119 46562904 46562905 | Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC | OLD PAY PAY | See endnote ⁵³ |

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Ingredient: Mesotrione (CAS No. 104206-82-8)

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|----------------------------|------------------------------|-------------|--|------------|---------------------------|
| 850.4400, 850.4500 | Tier 2: Aquatic Plant Growth | 44505123 | Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC | OLD | See endnote ⁵⁴ |
| | | 46562906 | | PAY | |
| | | 46562907 | | PAY | |
| | | 44505120 | | OLD | |
| | | 44505124 | | OLD | |
| | | 44505121 | | OLD | |
| | | 44901709 | | OLD | |
| | | 44901710 | | OLD GAP | |
| 850.4300 | Terrestrial Field | | | | Not required |
| 850.4450 | Aquatic Field | | | | Not required |
| 850.4025 | Target Area Phytotoxicity | | | | Not required |
| 850.4550 | Cyanobacteria Toxicity | 44505122 | | OLD | See endnote ⁵⁵ |
| | | | | | |
| 835.2120 | Hydrolysis | 44373529 | | OLD | See endnote ⁵⁶ |
| 835.2240 | Photodegradation in Water | 44537108 | | OLD | See endnote ⁵⁷ |
| 835.2410 | Photodegradation in Soil | 44505128 | | OLD | See endnote ⁵⁸ |
| | | 45196005 | | OLD | |
| 835.2370 | Photodegradation in Air | | | | Not required |


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| Applicant's/Registrant's Name & Address <div style="text-align: center;">Extremis, LLC 501 Cascade Pointe Lane, Suite 102 Cary, NC 27513</div> | | | Product <div style="text-align: center;">Mesotrione Technical</div> | | |
| Ingredient: Mesotrione (CAS No. 104206-82-8) | | | | | |
| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
| 835.4100 | Aerobic Soil Metabolism | 44373530 | | OLD | See endnote ⁵⁹ |
| | | 44505130 | | | |
| | | 44373531 | | | |
| | | 45196006 | | | |
| | | 44505129 | | | |
| | | 44505208 | | | |
| | | 44901714 | | | |
| | | 45196008 | | | |
| 835.4200 | Anaerobic Soil Metabolism | 44505131 | | OLD | See endnote ⁶⁰ |
| | | 44505132 | | | |
| 835.4300 | Aerobic Aquatic Metabolism | 45196011 | Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC | OLD | See endnote ⁶¹ |
| | | 49458102 | | | |
| | | 49458103 | | | |
| 835.4400 | Anaerobic Aquatic Metabolism | 44505131 | Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC | OLD | See endnote ⁶² |
| | | 44505132 | | | |
| | | 49458102 | | | |
| | | 49458103 | | | |

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|--|---|-----------------------|
| Signature  | Name and Title Ann M. Tillman; Regulatory Consultant | Date Jan. 10, 2017 |
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Ingredient: Mesotrione (CAS No. 104206-82-8)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|----------------------------|--|--|--|---------------------------------|---------------------------|
| 835.1230 | Leaching/Adsorption/Desorption | 44505203 44505204 44373532 44505201 44505202 | | OLD OLD OLD OLD OLD | See endnote ⁶³ |
| 835.1410 | Volatility – Laboratory | | | | Not required |
| 835.8100 | Volatility – Field | | | | Not required |
| 835.6100 | Soil Field Dissipation Study | 44505207 44505125 44505206 44505205 44505126 | | OLD OLD OLD OLD OLD | See endnote ⁶⁴ |
| 835.6200 | Aquatic Sediment Field Dissipation Study | | | | Not required |
| 835.6300 | Forest Field Dissipation Study | | | | Not required |
| 835.6400 | Combination and Tank Mixes | | | | Not required |
| 835.7100 | Ground Water Monitoring | 47418901 | Syngenta Crop Protection, LLC | PAY | See endnote ⁶⁵ |
| 850.6100 | Environmental Chemistry Methods | 49458106 49458107 49458108 49458109 | Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC | PAY PAY PAY PAY | See endnote ⁶⁶ |
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|--|---|-----------------------|
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Ingredient: Mesotrione (CAS No. 104206-82-8)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|----------------------------|---|--|--|---------------------------------|------|
| 860.1300 | Nature of the Residue: Plants | 44537109 44537110 44942402 46726306 48996202 | Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC | OLD OLD OLD PAY PAY | |
| 860.1300 | Nature of the Residue: Livestock | 44505212 44505213 44505214 44537111 44537112 | | OLD OLD OLD OLD OLD | |
| 860.1850 | Confined Rotational Crops | 44505219 44505220 | | OLD OLD | |
| 860.1340 | Residue Analytical Methods | 44505215 44505216 45651802 45651803 | Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC | OLD OLD PAY PAY | |
| 860.1360 | Multiresidue Method | 44505224 | | OLD | |
| 860.1380 | Storage Stability | 44942401 47339701 | Syngenta Crop Protection, LLC | OLD PAY | |
| 860.1500 | Magnitude of the Residue in Plants: asparagus | 47013802 | Syngenta Crop Protection, LLC | PAY | |

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| Applicant's/Registrant's Name & Address Extremis, LLC 501 Cascade Pointe Lane, Suite 102 Cary, NC 27513 | Product Mesotrione Technical | |

Ingredient: Mesotrione (CAS No. 104206-82-8)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|----------------------------|---|--|--|--------------------------|------|
| 860.1500 | Magnitude of the Residue in Plants: berry, crop group 13 | 46726301 | Syngenta Crop Protection, LLC | PAY | |
| 860.1500 | Magnitude of the Residue in Plants: citrus fruits | 49227304 | Syngenta Crop Protection, LLC | PAY | |
| 860.1500 | Magnitude of the Residue in Plants: corn (field, popcorn, seed production, silage, sweet) | 44505221 44505223 45651801 47687903 | Syngenta Crop Protection, LLC Syngenta Crop Protection, LLC | OLD OLD PAY PAY | |
| 860.1500 | Magnitude of the Residue in Plants: cranberry | 46726307 | Syngenta Crop Protection, LLC | PAY | |
| 860.1500 | Magnitude of the Residue in Plants: flax | 46726303 | Syngenta Crop Protection, LLC | PAY | |
| 860.1500 | Magnitude of the Residue in Plants: grasses grown for seed | 47013803 | Syngenta Crop Protection, LLC | PAY | |
| 860.1500 | Magnitude of the Residue in Plants: millet | 46726302 | Syngenta Crop Protection, LLC | PAY | |
| 860.1500 | Magnitude of the Residue in Plants: oats | 47013806 | Syngenta Crop Protection, LLC | PAY | |
| 860.1500 | Magnitude of the Residue in Plants: okra | 47013804 | Syngenta Crop Protection, LLC | PAY | |
| 860.1500 | Magnitude of the Residue in Plants: pome fruit | 49227303 | Syngenta Crop Protection, LLC | PAY | |
| 860.1500 | Magnitude of the Residue in Plants: rhubarb | 47013807 | Syngenta Crop Protection, LLC | PAY | |
| 860.1500 | Magnitude of the Residue in Plants: sorghum | 47013808 | Syngenta Crop Protection, LLC | PAY | |
| 860.1500 | Magnitude of the Residue in Plants: soybean | 47434101 | Syngenta Crop Protection, LLC | PAY | |
| 860.1500 | Magnitude of the Residue in Plants: stone fruits | 49227302 | Syngenta Crop Protection, LLC | PAY | |
| 860.1500 | Magnitude of the Residue in Plants: sugarcane | 47013805 | Syngenta Crop Protection, LLC | PAY | |
| 860.1500 | Magnitude of the Residue in Plants: tree nuts | 49227301 | Syngenta Crop Protection, LLC | PAY | |

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Ingredient: Mesotrione (CAS No. 104206-82-8)

| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
|----------------------------|--|-------------|-------------------------------|--------|--------------|
| 860.1520 | Magnitude of the Residue in Processed Food or Feed: citrus | 49227304 | Syngenta Crop Protection, LLC | PAY | |
| 860.1520 | Magnitude of the Residue in Processed Food or Feed: corn | 44505223 | | OLD | |
| 860.1520 | Magnitude of the Residue in Processed Food or Feed: flax | 46726303 | Syngenta Crop Protection, LLC | PAY | |
| 860.1520 | Magnitude of the Residue in Processed Food or Feed: millet | 46726302 | Syngenta Crop Protection, LLC | PAY | |
| 860.1520 | Magnitude of the Residue in Processed Food or Feed: oats | 47013806 | Syngenta Crop Protection, LLC | PAY | |
| 860.1520 | Magnitude of the Residue in Processed Food or Feed: pome fruit | 49227303 | Syngenta Crop Protection, LLC | PAY | |
| 860.1520 | Magnitude of the Residue in Processed Food or Feed: sorghum | 47013808 | Syngenta Crop Protection, LLC | PAY | |
| 860.1520 | Magnitude of the Residue in Processed Food or Feed: soybean | 47434101 | Syngenta Crop Protection, LLC | PAY | |
| 860.1520 | Magnitude of the Residue in Processed Food or Feed: stone fruits | 49227302 | Syngenta Crop Protection, LLC | PAY | |
| 860.1520 | Magnitude of the Residue in Processed Food or Feed: sugarcane | 47013805 | Syngenta Crop Protection, LLC | PAY | |
| 860.1480 | Magnitude of the Residue in Meat, Milk, Poultry, and Eggs | | | | Not required |
| 860.1400 | Nature and Magnitude of the Residue in Potable Water | | | | Not required |

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| Ingredient: Mesotrione (CAS No. 104206-82-8) | | | | | |
| Guideline Reference Number | Guideline Study Name | MRID Number | Submitter | Status | Note |
| 860.1400 | Magnitude of the Residue in Fish | | | | Not required |
| 860.1400 | Magnitude of the Residue in Plants Resulting from the Use of Irrigation Water | | | | Not required |
| 860.1460 | Magnitude of the Residue in Food Handling Establishments | | | | Not required |
| 860.1900 | Field Rotational Crops | 44505222 | | OLD | |

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Endnotes for Data Matrix for Mesotrione Technical

¹ **830.1650** – These data are not required for the registration of a technical grade active ingredient. See 830.1620 for production process information.

² **830.6319** - This data requirement is required when the product is an emulsifiable liquid and to be diluted with petroleum solvents. Mesotrione Technical is a solid technical material and therefore this data requirement is not applicable.

³ **830.6321** – This guideline is not required for registration of a technical grade material.

⁴ **830.7100** - These data are required when the product is a liquid. Mesotrione Technical is a solid and these data are not required.

⁵ **830.7220** – This guideline is not required because Mesotrione Technical is not a liquid at room temperature. Please refer to 830.7200 for melting point data.

⁶ **830.7520** - Extremis, LLC is seeking a waiver for this data requirement for Mesotrione Technical because the product is not a fibrous material nor is it water insoluble.

⁷ **870.1100** – The study cited is acceptable and satisfies the data requirement as per the May 6, 2015 Mesotrione Human Health Risk Assessment in Support of the Section 3 Request for Use of Mesotrione on Pome Fruit, Stone Fruit, Citrus and Tree Nuts (DP Barcodes D419616, D419617, D419618) (2015 Human Health RA).

⁸ **870.1200** – The study cited is acceptable and satisfies the data requirement as per the 2015 Human Health RA.

⁹ **870.1300** – The study cited is acceptable and satisfies the data requirement as per the 2015 Human Health RA.

¹⁰ **870.2400** – The study cited is acceptable and satisfies the data requirement as per the 2015 Human Health RA.

¹¹ **870.2500** – The study cited is acceptable and satisfies the data requirement as per the 2015 Human Health RA.

¹² **870.2600** – The study cited is acceptable and satisfies the data requirement as per the 2015 Human Health RA.

¹³ **850.2100** – The study cited is acceptable and satisfies the data requirement as per the June 3, 2014 Problem Formulation for the Environmental Fate and Ecological Risk, Endangered Species, and Drinking Water Assessments in Support of the Registration Review of Mesotrione (DP Barcode 417229) (Problem Formulation). No passerine data have been submitted nor are data required as per the Problem Formulation.

¹⁴ **850.2200** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation.

¹⁵ **850.2300** – The studies cited are acceptable or supplemental, but satisfy the data requirement as per the Problem Formulation.

¹⁶ **850.1075** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation.

¹⁷ **850.1010** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation.

¹⁸ **850.1025, 850.1035, 850.1045, 850.1055, 850.1075** – The studies cited are acceptable or supplemental, but satisfy the data requirement as per the Problem Formulation and Oct. 3, 2014 EPA memo Reclassification of 6 Mesotrione Aquatic Ecotoxicology Studies (DP Barcode D422848) (Oct. 3, 2014 EPA memo). It appears MRID 50096302 was submitted in response to the Registration Review DCI for mysid data with MBNA.

¹⁹ **850.1300** – Although the study cited was classified as supplemental and does not satisfy the data requirement as per the Oct. 3, 2014 EPA memo, no additional data are required.

²⁰ **850.1350** – It appears MRID 50096301 was submitted in response to the Registration Review DCI for mysid data.

²¹ **850.1400** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation.

²² **850.1400** – No data have been submitted nor are data required as per the Problem Formulation.

²³ **850.1500** – No data have been submitted nor are data required as per the Problem Formulation.

²⁴ **850.1710, 850.1730, 850.1850** – No data have been submitted nor are data required as per the Problem Formulation.

²⁵ **850.3020** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation.

²⁶ **SS-1155** – The need for these data will be dictated by the results of lower tiered data.

²⁷ **SS-1312** – It appears MRID 49822701 was submitted in response to the Registration Review DCI for bee data.

²⁸ **SS-1313** – It appears MRID 49822702 was submitted in response to the Registration Review DCI for bee data.

²⁹ **SS-1314** – It appears MRID 50096304 was submitted in response to the Registration Review DCI for bee data.

³⁰ **SS-1342** – The need for these data will be dictated by the results of lower tiered data.

³¹ **850.3030** – No data have been submitted nor are data required as per the Problem Formulation.

³² **850.3040** – The need for these data will be dictated by the results of lower tiered data.

³³ **870.6200** – The studies cited are acceptable and satisfy the data requirement as per the 2015 Human Health RA.

³⁴ **870.3100** – The studies cited are acceptable and satisfy the data requirement as per the 2015 Human Health RA. Note: only one rodent species is required to be cited; therefore, mouse data are not cited.

³⁵ **870.3150** – The study cited is acceptable and satisfies the data requirement as per the 2015 Human Health RA.

³⁶ **870.3200** – The study cited is acceptable and satisfies the data requirement as per the 2015 Human Health RA.

³⁷ **870.3465** – The 2015 Human Health RA states these data are not required.

³⁸ **870.6200** – The study cited is acceptable and satisfies the data requirement as per the 2015 Human Health RA.

³⁹ **870.4100** – The studies cited are acceptable and satisfy the data requirement as per the 2015 Human Health RA. Note: only one rodent species is required to be cited; therefore, mouse data are not cited. See 870.4200.

⁴⁰ **870.4200** – The studies cited are acceptable and satisfy the data requirement as per the 2015 Human Health RA.

⁴¹ **870.3700** – The studies cited are acceptable and satisfy the data requirement as per the 2015 Human Health RA. Unacceptable rabbit developmental data are not cited. The 2015 Human Health RA identified the submitted data as unacceptable, but that no additional data were required because the rabbit is not considered the relevant species for human health risk assessment.

⁴² **870.3800** – The study cited is acceptable and satisfies the data requirement as per the 2015 Human Health RA. Note: only one rodent species is required to be cited; therefore, mouse data are not cited.

⁴³ **870.5100** – The study cited is acceptable and satisfies the data requirement as per the 2015 Human Health RA.

⁴⁴ **870.5300, 870.5375** – The studies cited are acceptable and satisfy the data requirement as per the 2015 Human Health RA.

⁴⁵ **870.5385, 870.5395, 870.5450, 870.5550** – The study cited is acceptable and satisfies the data requirement as per the 2015 Human Health RA.

⁴⁶ **870.7485** – The studies cited are acceptable and satisfy the data requirement as per the 2015 Human Health RA.

⁴⁷ **870.7600** – The 2015 Human Health RA states these data are not required.

⁴⁸ **870.7800** – The study cited is acceptable and satisfies the data requirement as per the 2015 Human Health RA.

⁴⁹ **875.1100, 875.1300, 875.1500, 875.1600, 875.1700** – Extremis, LLC is a member of the Agricultural Handlers Exposure Task Force (AHETF).

⁵⁰ **875.2200, 875.2400, 875.2500, 875.2600, 875.2700, 875.2800, 875.2900, 875.3000** – Extremis, LLC is a member of Agricultural Re-Entry Task Force (ARTF) and Outdoor Residential Exposure Task Force (ORETF).

⁵¹ **201-1, 202-1** – Extremis, LLC is a member of Spray Drift Task Force.

⁵² **850.4100** – The studies cited are acceptable or supplemental (one study was partially invalid), but satisfy the data requirement as per the Problem Formulation with the exception of MBNA data. It appears these data were submitted under MRID 50096303.

⁵³ **850.4150** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation.

⁵⁴ **850.4400, 850.5400** – The studies cited are acceptable or supplemental, but satisfy the data requirement as per the Problem Formulation and Oct. 3, 2014 EPA memo with the exception of MBNA data. It appears that these data have not yet been submitted; Extremis will make an offer to cost share in the development of these data.

⁵⁵ **850.4550** – Although the study cited was classified as supplemental, no additional data were required as per the Problem Formulation.

⁵⁶ **835.2120** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation.

⁵⁷ **835.2240** – The study cited is acceptable and satisfies the data requirement as per the Problem Formulation.

⁵⁸ **835.2410** – Although the studies cited are supplemental/upgradable, no additional data are required to be submitted as per the Problem Formulation.

⁵⁹ **835.4100** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation except MBNA data; it appears MBNA data were submitted under MRID 45196008.

⁶⁰ **835.4200** – According to the Oct. 23, 2014 EFED Response to Comments Submitted to the Registration Review Docket (DP Barcode D422805) (Oct. 23, 2014 EPA memo), the studies cited are intended to satisfy the data gap for these data.

⁶¹ **835.4300** – MRID 45196011 was cited as partially acceptable in the Problem Formulation. According to the Oct. 23, 2014 EPA memo, the additional studies cited are intended to satisfy the data gap for these data.

⁶² **835.4400** – MRID 44505131 and 44505132 were cited as partially acceptable in the Problem Formulation. According to the Oct. 23, 2014 EPA memo, the additional studies cited are intended to satisfy the data gap for these data.

⁶³ **835.1230** – The studies cited are acceptable and satisfy the data requirement as per the Problem Formulation.

⁶⁴ **835.6100** – Although the studies cited are supplemental, no additional data are required to be submitted as per the Problem Formulation.

⁶⁵ **835.7100** – The study cited was classified as acceptable and satisfies the data requirement as per the Problem Formulation. Note: interim reports and preliminary submissions also listed in the Problem Formulation were not cited. In addition, voluntarily submitted drinking water data were not cited.

⁶⁶ **835.6100** – The studies cited appear to have been submitted in response to the Registration Review DCI.